

Table R-9: 1996 Key Source Tier 1 Analysis - Level Assessment

IPCC Source Categories	Direct Greenhouse Gas	Base Year		Level Assessment	Cumulative Total
		Estimate (Tg CO <sub>2</sub> Eq.)	Current Year Estimate (Tg CO <sub>2</sub> Eq.)		
CO <sub>2</sub> Emissions from Stationary Combustion - Coal	CO <sub>2</sub>	1,697.29	1,893.35	0.28	0.28
Mobile Combustion: Road & Other	CO <sub>2</sub>	1,244.98	1,389.11	0.21	0.49
CO <sub>2</sub> Emissions from Stationary Combustion - Gas	CO <sub>2</sub>	976.63	1,155.05	0.17	0.66
CO <sub>2</sub> Emissions from Stationary Combustion - Oil	CO <sub>2</sub>	669.99	659.64	0.10	0.76
Direct N <sub>2</sub> O Emissions from Agricultural Soils	N <sub>2</sub> O	193.71	212.59	0.03	0.79
CH <sub>4</sub> Emissions from Solid Waste Disposal Sites	CH <sub>4</sub>	212.07	212.09	0.03	0.82
Mobile Combustion: Aviation	CO <sub>2</sub>	176.88	180.16	0.03	0.85
Fugitive Emissions from Natural Gas Operations	CH <sub>4</sub>	122.01	127.45	0.02	0.87
CH <sub>4</sub> Emissions from Enteric Fermentation in Domestic Livestock	CH <sub>4</sub>	117.85	120.47	0.02	0.89
Indirect N <sub>2</sub> O Emissions from Nitrogen Used in Agriculture	N <sub>2</sub> O	73.83	80.60	0.01	0.90
Fugitive Emissions from Coal Mining and Handling	CH <sub>4</sub>	87.12	68.36	0.01	0.91
CO <sub>2</sub> Emissions from Iron and Steel Production	CO <sub>2</sub>	85.41	68.32	0.01	0.92
Mobile Combustion: Road & Other	N <sub>2</sub> O	48.56	58.53	0.01	0.93
Mobile Combustion: Marine	CO <sub>2</sub>	48.60	48.11	0.01	0.94
CO <sub>2</sub> Emissions from Cement Production	CO <sub>2</sub>	33.28	37.08	0.01	0.94
CH <sub>4</sub> Emissions from Manure Management	CH <sub>4</sub>	31.28	34.89	0.01	0.95
HFC-23 Emissions from HCFC-22 Manufacture	HFCs	34.98	31.12	<0.01	0.95
Emissions from Substitutes for Ozone Depleting Substances	Several	0.94	30.42	<0.01	0.96
SF <sub>6</sub> Emissions from Electrical Equipment	SF <sub>6</sub>	32.10	27.68	<0.01	0.96
CH <sub>4</sub> Emissions from Wastewater Handling	CH <sub>4</sub>	24.08	26.84	<0.01	0.96
Fugitive Emissions from Oil Operations	CH <sub>4</sub>	27.49	23.90	<0.01	0.97
N <sub>2</sub> O Emissions from Nitric Acid Production	N <sub>2</sub> O	17.85	20.71	<0.01	0.97
CO <sub>2</sub> Emissions from Ammonia Production and Urea Application	CO <sub>2</sub>	19.31	20.28	<0.01	0.97
CO <sub>2</sub> Emissions from Waste Incineration	CO <sub>2</sub>	14.07	19.42	<0.01	0.98
N <sub>2</sub> O Emissions from Adipic Acid Production	N <sub>2</sub> O	15.20	17.04	<0.01	0.98
N <sub>2</sub> O Emissions from Manure Management	N <sub>2</sub> O	16.18	16.97	<0.01	0.98
N <sub>2</sub> O Emissions from Wastewater Handling	N <sub>2</sub> O	12.71	14.13	<0.01	0.98
Non-CO <sub>2</sub> Emissions from Stationary Combustion	N <sub>2</sub> O	12.52	13.80	<0.01	0.99
CO <sub>2</sub> Emissions from Lime Production	CO <sub>2</sub>	11.24	13.49	<0.01	0.99
PFC Emissions from Aluminum Production	PFCs	18.11	12.47	<0.01	0.99
Non-CO <sub>2</sub> Emissions from Stationary Combustion	CH <sub>4</sub>	8.14	8.72	<0.01	0.99
CO <sub>2</sub> Emissions from Natural Gas Flaring	CO <sub>2</sub>	5.51	8.23	<0.01	0.99
CO <sub>2</sub> Emissions from Limestone and Dolomite Use	CO <sub>2</sub>	5.47	7.61	<0.01	0.99
CH <sub>4</sub> Emissions from Rice Production	CH <sub>4</sub>	7.12	6.97	<0.01	0.99
SF <sub>6</sub> Emissions from Magnesium Production	SF <sub>6</sub>	5.37	6.53	<0.01	0.99
CO <sub>2</sub> Emissions from Aluminum Production	CO <sub>2</sub>	6.31	5.58	<0.01	1.00
PFC, HFC, and SF <sub>6</sub> Emissions from Semiconductor	SF <sub>6</sub>	2.86	5.44	<0.01	1.00

Manufacture					
Mobile Combustion: Road & Other	CH <sub>4</sub>	4.73	4.54	<0.01	1.00
N <sub>2</sub> O Emissions from N <sub>2</sub> O Product Usage	N <sub>2</sub> O	4.30	4.48	<0.01	1.00
CO <sub>2</sub> Emissions from Soda Ash Manufacture and	CO <sub>2</sub>	4.14	4.24	<0.01	1.00
Consumption					
CO <sub>2</sub> Emissions from Ferroalloys	CO <sub>2</sub>	1.98	1.95	<0.01	1.00
Mobile Combustion: Aviation	N <sub>2</sub> O	1.71	1.76	<0.01	1.00
CO <sub>2</sub> Emissions from Titanium Dioxide Production	CO <sub>2</sub>	1.31	1.66	<0.01	1.00
CH <sub>4</sub> Emissions from Petrochemical Production	CH <sub>4</sub>	1.17	1.58	<0.01	1.00
CO <sub>2</sub> Emissions from CO <sub>2</sub> Consumption	CO <sub>2</sub>	0.90	1.14	<0.01	1.00
CH <sub>4</sub> Emissions from Agricultural Residue Burning	CH <sub>4</sub>	0.68	0.75	<0.01	1.00
N <sub>2</sub> O Emissions from Agricultural Residue Burning	N <sub>2</sub> O	0.37	0.42	<0.01	1.00
Mobile Combustion: Marine	N <sub>2</sub> O	0.36	0.42	<0.01	1.00
CO <sub>2</sub> Emissions from Stationary Combustion	-CO <sub>2</sub>	0.40	0.38	<0.01	1.00
Geothermal Energy					
N <sub>2</sub> O Emissions from Waste Incineration	N <sub>2</sub> O	0.29	0.28	<0.01	1.00
Mobile Combustion: Aviation	CH <sub>4</sub>	0.16	0.15	<0.01	1.00
Mobile Combustion: Marine	CH <sub>4</sub>	0.07	0.08	<0.01	1.00
CH <sub>4</sub> Emissions from Silicon Carbide Production	CH <sub>4</sub>	0.03	0.02	<0.01	1.00
<b>TOTAL</b>		<b>6,139.64</b>	<b>6,706.99</b>	<b>1.00</b>	

Note: Sinks (e.g., LUCF, Landfill Carbon Storage) are not included in this analysis.